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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Garner T. Haupert, Jr. and Steven R. Gullans

Application No.:

10/601,184

Group Art Unit:

1644

Filed:

June 20, 2003

Examiner:

Not yet assigned

Confirmation No.:

6779

Title:

BIOSYNTHESIS OF HIF

CERTIFICATE OF MAILING OR TRANSMISSION I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: December 20 2001 Signature Typed or printed name of person signing certificate

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This In	information Disclosure Statement is submitted: under 37 CFR 1.129(a), or (First/Second submission after Final Rejection)
[X]	under 37 CFR 1.97(b), or (Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).
[]	under 37 CFR 1.97(c) together with either: [] a Statement under 37 CFR 1.97(e), as checked below, or [] a \$180.00 fee under 37 CFR 1.17(p), or (After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
[]	under 37 CFR 1.97(d) together with: [] a Statement under 37 CFR 1.97(e), as checked below, and [] a \$180.00 fee under 37 CFR 1.17(p), or (Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
[]	under 37 CFR 1.97(i): Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper. (Filed after payment of issue fee)

Statem	ient Und	ler 37 CFR 1.97(e)			
[]	any co	em of information contained in this Information Disclosure Statement was first cited in mmunication from a foreign patent office in a counterpart foreign application not more ree months prior to the filing of this Information Disclosure Statement; or			
[]	No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.				
Statem	nent Und	(Patent Term Adjustment) Applies to original applications (other than design) filed on or after May 29, 2000			
[]	commitwes no	tem of information contained in the Information Disclosure Statement was cited in a unication from a foreign patent office in a counterpart application and this communication it received by any individual designated in § 1.56(c) more than thirty days prior to the of the Information Disclosure Statement.			
[X] Enclosed herewith is form PTO-1449:		ed herewith is form PTO-1449:			
	[X]	Copies of the cited references are enclosed (AA-AH, AL-AQ, AL2-AN2, AR-AZ, AR2-AZ2, AR3-AZ3, AR4-AV4).			
		[] Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.			
	[]	Copies of the cited references are enclosed except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]			
	[X]	The listed references (AA, AB, AP and AR4) were cited in the enclosed International Search Report in a counterpart foreign application.			
	[]	The "concise explanation" requirement (non-English references) for reference(s) [under 37 CFR 1.98(a)(3) is satisfied by:			
		[] the explanation provided on the attached sheet.			
		[] the explanation provided in the Specification.			
		[] submission of the enclosed International Search Report.			
		[] submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.			
		[] the enclosed English language abstract.			

[X]	Applic	ant requests that the following non-published pending applications be considered:		
Examiner's Initials				
	U.S. Patent Application No. 09/220,913, by Garner T. Haupert, Jr., filed December 24, 1998, Atty. Docket No.: 0838.1002-000			
		U.S. Patent Application No. 09/412,268, by Behnaz Parharmi-Seren, et al., filed October 5, 1999, Atty. Docket No.: 0838.1004-000		
		U.S. Patent Application No. 09/506,246, by Rex T. Gallagher, et al., filed February 17, 2000, Atty. Docket No.: 2075.1002-003		
		Examiner Date		
	[X]	A copy of each above-cited application, including the current claims, is enclosed.		
	[]	A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.		
The Ex	aminer	is requested to return a copy of the above list of pending applications indicating which re considered with the next office communication.		
It is red	quested	that the information disclosed herein be made of record in this application.		
Metho	d of pay	ment:		
[]		ek for the fee noted above is enclosed, or the fee has been included in the check with the panying Reply. A copy of this Statement is enclosed.		
[]	Please	charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is ed.		
[X]	Please	charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.		
		Respectfully submitted,		
		HAMILTON, BROOK, SMITH & REYNOLDS, P.C.		
		By Kraig K. Anderson Registration No.: 54,961 Telephone: (978) 341-0036 Facsimile: (978) 341-0136		

Concord, MA 01742-9133
Dated: Deuber 20, 2004

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ATTORNEY DOCKET NO.
0838.2003-001

APPLICATION NO. 10/601,184

APPLICANT

Garner T. Haupert, Jr., et al.

FILING DATE
June 20, 2003

CONFIRMATION NO. 6779

GROUP 1644

		U.	S. PATENT DOCUMENTS	
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	6,265,383 B1	July 24, 2001	Haupert, Jr.
	AB	6,274,558 B1	August 14, 2001	Haupert, Jr.
	AC	5,716,937	February 10, 1998	Haupert, Jr.
	AD	5,910,484	June 8, 1999	Haupert, Jr.
	AE	US 2004 - 0248080 A1	December 9, 2004	Haupert, Jr.
	AF	5,844,091	December 1, 1998	Blaustein, et al.
	AG	5,695,756	December 9, 1997	Blaustein, et al.
	АН	5,164,296	November 17, 1992	Blaustein, et al.
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PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

December 20, 2004

(Use several sheets if necessary)

ATTORNEY	DOCKET NO
0838 200	3-001

application no. 10/601,184

APPLICANT

Garner T. Haupert, Jr., et al.

FILING DATE
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CONFIRMATION NO. 6779

GROUP 1644

		FOREIGN PATENT	DOCUMENTS	
	DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
AL	WO 98/53832 A1	12/03/1998	The General Hospital Corporation	
AM	WO 98/54195 A1	12/03/1998	The General Hospital Corporation, et al.	
AN	WO 98/07739 A1	02/26/1998	The General Hospital Corporation, et al.	
AO	WO 98/53831 A1	12/03/1998	The General Hospital Corporation	
AP	WO 00/39328 A1	07/06/2000	The General Hospital Corporation	
AQ	WO 01/25281 A1	04/12/2001	The General Hospital Corporation	
AL2	WO 2004/000328 A1	12/31/2003	The General Hospital Corporation, et al.	
AM2	EP 0 983 071 B1	03/08/2000	The General Hospital Corporation	
AN2	EP 0 433 074 B1	06/19/1991	The General Hospital Corporation	
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PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION December 20, 2004	ATTORNEY DOCKET NO. 0838.2003-001	APPLICATION NO. 10/601,184	
	APPLICANT Garner T. Haupert, Jr., et al.		
(Use several sheets if necessary)	FILING DATE June 20, 2003	CONFIRMATION NO. 6779	GROUP 1644

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AR	Bennett, R.D., et al., "Progesterone Metabolism in Digitalis Lanata", Phytochemistry 7: 41-50 (1968).
AS	Blaustein, M. P., "Sodium Ions, Calcium Ions, Blood Pressure Regulation, and Hypertension: A Reassessment and a Hypothesis", <i>Am. J. Physiol.</i> , 232(5): C165-C173 (1977).
AT	Blaustein, M.P., "Endogenous Ouabain: Role in the Pathogenesis of Hypertension", <i>Kidney Int.</i> 49(6): 1748-1753 (1996).
AU	Cantiello, et al., "Na ⁺ Pump in Renal Tubular Cells is Regulated by Endogenous Na ⁺ , K ⁺ - ATPase Inhibitor from Hypothalamus", Am. J. Physiol., 255: F574-580 (1988).
AV	Capsi, E. and Lewis, D.O., "Progesterone: Its Possible Role in the Biosynthesis of Cardenolides in Digitalis Lanata", Science 156(3774): 519-520 (1967).
AW	Carilli, C. T., et al., "Hypothalamic Factor Inhibits the (Na,K) ATPase from the Extracellular Surface", The Journal of Biological Chemistry, 260(2): 1027-1031 (1985).
AX	Crabos, M, et al., "Atrial Natriuretic Peptide Regulates Release of Na+-K+-ATPase Inhibitor from Rat Brain", Am. J. Physiol., 254(6): F912-F917 (1988).
AY	DeAngelis, C. and Haupert, Jr., G. T., "Hypoxia Triggers Release of an Endogenous Inhibitor of Na+, -K+ -ATPase from Midbrain and Adrenal", Am. J. Physiol., 274(1): F182-F188 (1998).
AZ	Ferrandi, M., et al., "Age-Dependency and Dietary Influence on the Hypothalamic Ouabain-Like Factor in Milan Hypertensive Rats", Journal of Hypertension, 13(12): 1571-1574 (1995).
AR2	Ferrandi, M. and Bianchi, G., "Genetic Mechanisms Underlying the Regulation of Urinary Sodium Excretion and Arterial Blood Pressure: The Role of Adducin", <i>Acta. Physiol. Scand.</i> 168: 187-193 (2000).
AS2	Ferrandi, M. and Manuta, P., "Ouabain-Like Factor: Is it the Natriuretic Hormone?", Curr. Opin. Nephrol. Hypertens. 9(2): 165-171 (2000).
AT2	Ferrandi, M., et al., "Ouabain-Like Factor Quantification in Mammalian Tissues and Plasma: Comparison of Two Independent Assays", <i>Hypertension</i> 30(4): 886-896 (1997).
AU2	Goto, A., et al., "Physiology and Pharmacology of Endogenous Digitalis-Like Factors", Pharmacological Reviews, 44(3): 377-399 (1992).

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Sheet 4 of 5

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IN AN APPLICATION December 20, 2004	APPLICANT Garner T. Haupert, Jr., et al.		
(Use several sheets if necessary)	FILING DATE June 20, 2003	CONFIRMATION NO. 6779	GROUP 1644

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
A\	Haber, E. and Haupert, Jr., G. T., "The Search for a Hypothalamic NA+, K+ -ATPase Inhibitor", Hypertension, 9(4): 315-324 (1987).			
. A	Haddy, F. J. and Overbeck, H. W., "The Role of Humoral Agents in Volume Expanded Hypertension", Life Sciences, 19(7): 935-948 (1976).			
A	Hallaq, H.A. and Haupert, G.T., Jr., "Positive Inotropic Effects of the Endogenous Na ⁺ /K ⁺ - Transporting ATPase Inhibitor from the Hypothalamus", <i>Proc. Natl. Acad. Sci. USA</i> , 86(24): 10080-10084 (1989).			
AY	Haupert, Jr., G. and Sancho, J. M., "Sodium Transport Inhibitor from Bovine Hypothalamus", <i>Proc. Natl. Acad. Sci.</i> , 76(9): 4658-4660 (1979).			
AZ	Haupert, Jr., G. T., et al., "Hypothalamic Sodium-Transport Inhibitor is a High-Affinity Reversible Inhibitor of Na ⁺ -K ⁺ -ATPase", American Journal of Physiology, 247(6): F919-924 (1984).			
AF	Janssens, S. P., et al., "Hypothalamic Na ⁺ , K ⁺ -ATPase Inhibitor Constricts Pulmonary Arteries of Spontaneously Hypertensive Rats", Journal of Cardiovascular Pharmacology, 22(Suppl. 2): S42-S46 (1993).			
AS	Kawamura, A., et al., "On the Structure of Endogenous Ouabain", Proc. Natl. Acad. Sci., 96: 6654-6659 (1999).			
A	Kitano, S., et al., "Exogenous Ouabain is Accumulated in the Adrenals and Mimics the Kinetics of Endogenous Digitalis-Like Factor in Rats", Hypertens Res, 21(1): 47-56 (1998).			
AU	Komiyama, Y., et al., "Identification of Endogenous Ouabain in Culture Supernatant of PC12 Cells", Journal of Hyppertension, 19(2): 229-236 (2001).			
A	Laredo, J., et al., "Angiotensin II Stimulates Secretion of Endogenous Ouabain from Bovine Adrenocortical Cells via Angiotensin Type 2 Receptors", Hypertension, 29(1): 401-407 (1997).			
A	Lichtstein, D., et al., "Biosynthesis of Digitalis-Like Compounds in Rat Adrenal Cells: Hydroxycholesterol as Possible Precursor", Life Sciences, 62(23): 2109-2126 (1998).			
Až	Lu, Z., et al., "Biosynthesis of Endogenous Ouabain from Pregnenolone and Progesterone in Bovine Adrenal Cortical Cells", Hypertension, 32(3): 624 (1998).			

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	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AY3	Orth, D. N. and Kovacs, W. J., "The Adrenal Cortex". In <i>Williams Textbook of Endocrinology</i> 9th Edition, Jean. D. Wilson, M.D., <i>et al.</i> , eds. (W. B. Saunders Company), pp. 517-664 (1998).
AZ3	Perrin, A., et al., "Bovine Adrenocortical Cells in Culture Synthesize an Ouabain-Like Compound", Molecular and Cellular Endocrinology, 126: 7-15 (1997).
AR4	Quazzaz, H. M. A. M., et al., "Deglycosylated Products of Endogenous Digoxin-Like Immunoreactive Factor in Mammalian Tissue", <i>The Journal of Biological Chemistry</i> , 271(15): 8731-8737 (1996).
AS4	Robel, P. and Baulier, E., "Neurosteroids: Biosynthesis and Function", <i>Neurobiolgy</i> , 9(4): 383-394 (1995).
AT4	Tamura, M., et al., "Identification of Two Cardiac Glycosides as Na ⁺ - Pump Inhibitors in Rat Urine and Diet", The Journal of Biological Chemistry, 269(16): 11972-11979 (1994).
AU4	Tymiak, A. A., et al., "Physicochemical Characterization of a Ouabain Isomer Isolated from Bovine Hypothalamus", <i>Proc. Natl. Acad. Sci.</i> , 90: 8189-8193 (1993).
AV4	Elbashir, S.M., et al., "Duplexes of 21-Nucleotide RNAs Mediate RNA Interference in Cultured Mammalian Cells," Nature, 411: 494-498 (2001).

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